

#2

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/838,028

DATE: 05/08/2001

TIME: 15:55:54

Input Set : A:\00125US2.ST25.txt

Output Set: N:\CRF3\05082001\I838028.raw

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3 <110> APPLICANT: Lind, Peter
4   Berthold, Malin
6 <120> TITLE OF INVENTION: Novel G Protein-Coupled Receptor
8 <130> FILE REFERENCE: 00125US2
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/838,028
C--> 10 <141> CURRENT FILING DATE: 2001-04-19
10 <150> PRIOR APPLICATION NUMBER: 60/198,600
11 <151> PRIOR FILING DATE: 2000-04-19
13 <160> NUMBER OF SEQ ID NOS: 12
15 <170> SOFTWARE: PatentIn version 3.0
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19 <212> TYPE: DNA
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27 atcagggaac tcttccactt tggggagggt ccctcaaacc ccaggctccct ctactgccag      180
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77 <211> LENGTH: 451
78 <212> TYPE: PRT
79 <213> ORGANISM: Homo sapiens
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84 1          5          10          15
86 Gly Arg Val Pro Gln Thr Pro Gly Pro Ser Thr Ala Ser Gly Val Pro
87          20          25          30
89 Glu Val Gly Leu Arg Asp Val Ala Ser Glu Ser Val Ala Leu Phe Phe
90          35          40          45
92 Met Leu Leu Leu Asp Leu Thr Ala Val Ala Gly Asn Ala Ala Val Met
93          50          55          60
95 Ala Val Ile Ala Lys Thr Pro Ala Leu Arg Lys Phe Val Phe Val Phe
96 65          70          75          80
98 His Leu Cys Leu Val Asp Leu Leu Ala Ala Leu Thr Leu Met Pro Leu
99          85          90          95
101 Ala Met Leu Ser Ser Ser Ala Leu Phe Asp His Ala Leu Phe Gly Glu
102          100          105          110
104 Val Ala Cys Arg Leu Tyr Leu Phe Leu Ser Val Cys Phe Val Ser Leu
105          115          120          125
107 Ala Ile Leu Ser Val Ser Ala Ile Asn Val Glu Arg Tyr Tyr Tyr Val
108          130          135          140
110 Val His Pro Met Arg Tyr Glu Val Arg Met Thr Leu Gly Leu Val Ala
111 145          150          155          160
113 Ser Val Leu Val Gly Val Trp Val Lys Ala Leu Ala Met Ala Ser Val
114          165          170          175
116 Pro Val Leu Gly Arg Val Ser Trp Glu Glu Gly Ala Pro Ser Val Pro
117          180          185          190
119 Pro Gly Cys Ser Leu Gln Trp Ser His Ser Ala Tyr Cys Gln Leu Phe
120          195          200          205
122 Val Val Val Phe Ala Val Leu Tyr Phe Leu Leu Pro Leu Leu Leu Ile
123          210          215          220
125 Leu Val Val Tyr Cys Ser Met Phe Arg Val Ala Arg Val Ala Ala Met
126 225          230          235          240
128 Gln His Gly Pro Leu Pro Thr Trp Met Glu Thr Pro Arg Gln Arg Ser
129          245          250          255
131 Glu Ser Leu Ser Ser Arg Ser Thr Met Val Thr Ser Ser Gly Ala Pro
132          260          265          270
134 Gln Thr Thr Pro His Arg Thr Phe Gly Gly Gly Lys Ala Ala Val Val
135          275          280          285
137 Leu Leu Ala Val Gly Gly Gln Phe Leu Leu Cys Trp Leu Pro Tyr Phe
138          290          295          300
140 Ser Phe His Leu Tyr Val Ala Leu Ser Ala Gln Pro Ile Ser Thr Gly
141 305          310          315          320
143 Gln Val Glu Ser Val Val Thr Trp Ile Gly Tyr Phe Cys Phe Thr Ser
144          325          330          335
146 Asn Pro Phe Phe Tyr Gly Cys Leu Asn Arg Gln Ile Arg Gly Glu Leu
147          340          345          350
149 Ser Lys Gln Phe Val Cys Phe Phe Lys Pro Ala Pro Glu Glu Glu Leu
150          355          360          365
152 Arg Leu Pro Ser Arg Glu Gly Ser Ile Glu Glu Asn Phe Leu Gln Phe
153          370          375          380
155 Leu Gln Gly Thr Gly Cys Pro Ser Glu Ser Trp Val Ser Arg Pro Leu
156 385          390          395          400

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Input Set : A:\00125US2.ST25.txt

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159          405          410          415
161 Gln Ile Ala Glu Glu Thr Ser Glu Phe Leu Glu Gln Gln Leu Thr Ser
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164 Asp Ile Ile Met Ser Asp Ser Tyr Leu Arg Pro Ala Ala Ser Pro Arg
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167 Leu Glu Ser
168          450
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171 <211> LENGTH: 1909
172 <212> TYPE: DNA
173 <213> ORGANISM: Rattus norvegicus
175 <400> SEQUENCE: 3
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178 catcaggaaa ctcctccact ttgggaagg cccttcaaac ccagggtccc tctacggcca      180
179 gcggagtccc agagttggga ctaaggagc tggcttcgga atctgtggcc ctcttcttca      240
180 tgcttctgtt ggatctcact gctgtggcgg gcaatgctgc tgtgatggct gttattgcca      300
181 agacacccgc cctccgaaag tttgtttttg tcttccatct ctgtctggtg gacctgctgg      360
182 ctgccctgac cctcatgccc ctggccatgc tctccagctc tgccctcttt gaccacgccc      420
183 tctttgggga ggtggcctgc cgctctacc tgttctgag cgtttgcttt gtcagcctgg      480
184 ccctcctttc ggtgtctgcc attaatgtgg agcgctacta ttatgtggtc caccocatgc      540
185 gctacgaggt gcgcatgaca ctagggtctg tggcctctgt gctgggtggc gtgtgggtaa      600
186 aggcctgggc catggcgtct gtgccagtgt tgggaagggt ctactgggag gaaggagctc      660
187 ccagtgttaa ccaggctgt tctctccaat ggagccatag tgcctactgc cagctttttg      720
188 tgggtggtctt tgctgttctt tacttcttgc tgcccttgat cctgatcttt gtggtctact      780
189 gcagcatggt tcgagtggct cgcgtggctg ccattgcaaca tgggcccgtg cccacgtgga      840
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192 tcctggctgt cgggggacag ttcttgcttt gttggttacc ctacttctct ttccatctct      1020
193 atgttgccct gacgctcag cccatttcaa caggacaggt ggagaatgtg gtgacctgga      1080
194 tcggctactt ttgcttcaat tccaaccctt tttctatggt atgtctcaac cgtcagatcc      1140
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197 ctgagaactg ggtttctcgg ccctaccca gccctaagcg ggagccaccg cctgctgttg      1320
198 actttcgaat ccaggccag attgctgagg agacctcgga gttcttgagg cagcaactca      1380
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202 tcctgggtca ggaccagagt caacgggatg gacatgtggc aaaaagcctt ggacttggct      1620
203 gtgatctttg actattgggg gagggatcct gggtatggtg agacggtgat gagagaaaag      1680
204 ggtgacaaa gtaggggaaa gcctttctac cagtgaactc ttcgtgcctc aggagacagg      1740
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206 ggtttacttc tttccagtgt catagtccag actaatattt atactgagac aaggtaagaa      1860
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241 <210> SEQ ID NO: 4
242 <211> LENGTH: 449
243 <212> TYPE: PRT
244 <213> ORGANISM: Rattus norvegicus

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246 &lt;400&gt; SEQUENCE: 4

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252      20      25      30
254 Glu Leu Gly Leu Arg Asp Val Ala Ser Glu Ser Val Ala Leu Phe Phe
255      35      40      45
257 Met Leu Leu Leu Asp Leu Thr Ala Val Ala Gly Asn Ala Ala Val Met
258      50      55      60
260 Ala Val Ile Ala Lys Thr Pro Ala Leu Arg Lys Phe Val Phe Val Phe
261 65      70      75      80
263 His Leu Cys Leu Val Asp Leu Leu Ala Ala Leu Thr Leu Met Pro Leu
264      85      90      95
266 Ala Met Leu Ser Ser Ala Leu Phe Asp His Ala Leu Phe Gly Glu
267      100     105     110
269 Val Ala Cys Arg Leu Tyr Leu Phe Leu Ser Val Cys Phe Val Ser Leu
270      115     120     125
272 Ala Ile Leu Ser Val Ser Ala Ile Asn Val Glu Arg Tyr Tyr Tyr Val
273      130     135     140
275 Val His Pro Met Arg Tyr Glu Val Arg Met Thr Leu Gly Leu Val Ala
276 145     150     155     160
278 Ser Val Leu Val Gly Val Trp Val Lys Ala Leu Ala Met Ala Ser Val
279      165     170     175
281 Pro Val Leu Gly Arg Val Tyr Trp Glu Glu Gly Ala Pro Ser Val Asn
282      180     185     190
284 Pro Gly Cys Ser Leu Gln Trp Ser His Ser Ala Tyr Cys Gln Leu Phe
285      195     200     205
287 Val Val Val Phe Ala Val Leu Tyr Phe Leu Leu Pro Leu Ile Leu Ile
288      210     215     220
290 Phe Val Val Tyr Cys Ser Met Phe Arg Val Ala Arg Val Ala Ala Met
291 225     230     235     240
293 Gln His Gly Pro Leu Pro Thr Trp Met Glu Thr Pro Arg Gln Arg Ser
294      245     250     255
296 Glu Ser Leu Ser Ser Arg Ser Thr Met Val Thr Ser Ser Gly Ala His
297      260     265     270
299 Gln Thr Thr Pro His Arg Thr Phe Gly Gly Gly Lys Ala Ala Val Val
300      275     280     285
302 Leu Leu Ala Val Gly Gly Gln Phe Leu Leu Cys Trp Leu Pro Tyr Phe
303      290     295     300
305 Ser Phe His Leu Tyr Val Ala Leu Ser Ala Gln Pro Ile Ser Thr Gly
306 305     310     315     320
308 Gln Val Glu Asn Val Val Thr Trp Ile Gly Tyr Phe Cys Phe Thr Ser
309      325     330     335
311 Asn Pro Phe Phe Tyr Gly Cys Leu Asn Arg Gln Ile Arg Gly Glu Leu
312      340     345     350
314 Ser Lys Gln Phe Val Cys Phe Phe Lys Ala Ala Pro Glu Glu Glu Leu
315      355     360     365
317 Arg Leu Pro Ser Arg Glu Gly Ser Ile Glu Glu Asn Phe Leu Gln Phe
318      370     375     380

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320 Leu Gln Gly Thr Ser Glu Asn Trp Val Ser Arg Pro Leu Pro Ser Pro
321 385                      390                      395                      400
323 Lys Arg Glu Pro Pro Ala Val Asp Phe Arg Ile Pro Gly Gln Ile
324                      405                      410                      415
326 Ala Glu Glu Thr Ser Glu Phe Leu Glu Gln Gln Leu Thr Ser Asp Ile
327                      420                      425                      430
329 Ile Met Ser Asp Ser Tyr Leu Arg Pro Ala Pro Ser Pro Arg Leu Glu
330                      435                      440                      445
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336 <211> LENGTH: 25
337 <212> TYPE: DNA
338 <213> ORGANISM: Artificial Sequence
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341 <221> NAME/KEY: misc_feature
342 <223> OTHER INFORMATION: Primer
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373 <400> SEQUENCE: 7
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377 <210> SEQ ID NO: 8
378 <211> LENGTH: 48
379 <212> TYPE: DNA
380 <213> ORGANISM: Artificial Sequence
382 <220> FEATURE:
383 <221> NAME/KEY: misc_feature
384 <223> OTHER INFORMATION: Primer
387 <400> SEQUENCE: 8
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392 <211> LENGTH: 18
393 <212> TYPE: DNA
394 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

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Input Set : A:\00125US2.ST25.txt

Output Set: N:\CRF3\05082001\I838028.raw

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date